

APPROVED	O.G. FIG.	
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$$E = R^{-6} / (R^{-6} + R_0^{-6})$$

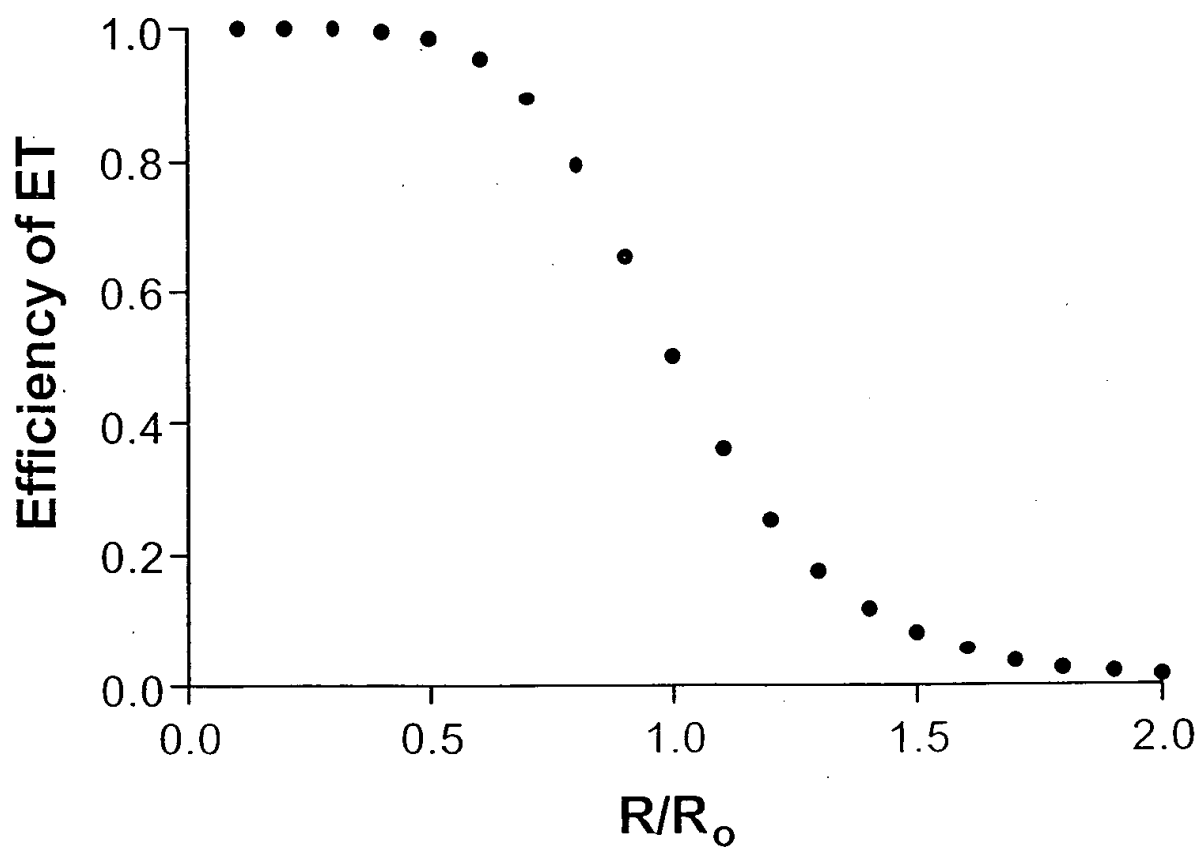


FIG. 1

APPROVED	O.G. FIG.	
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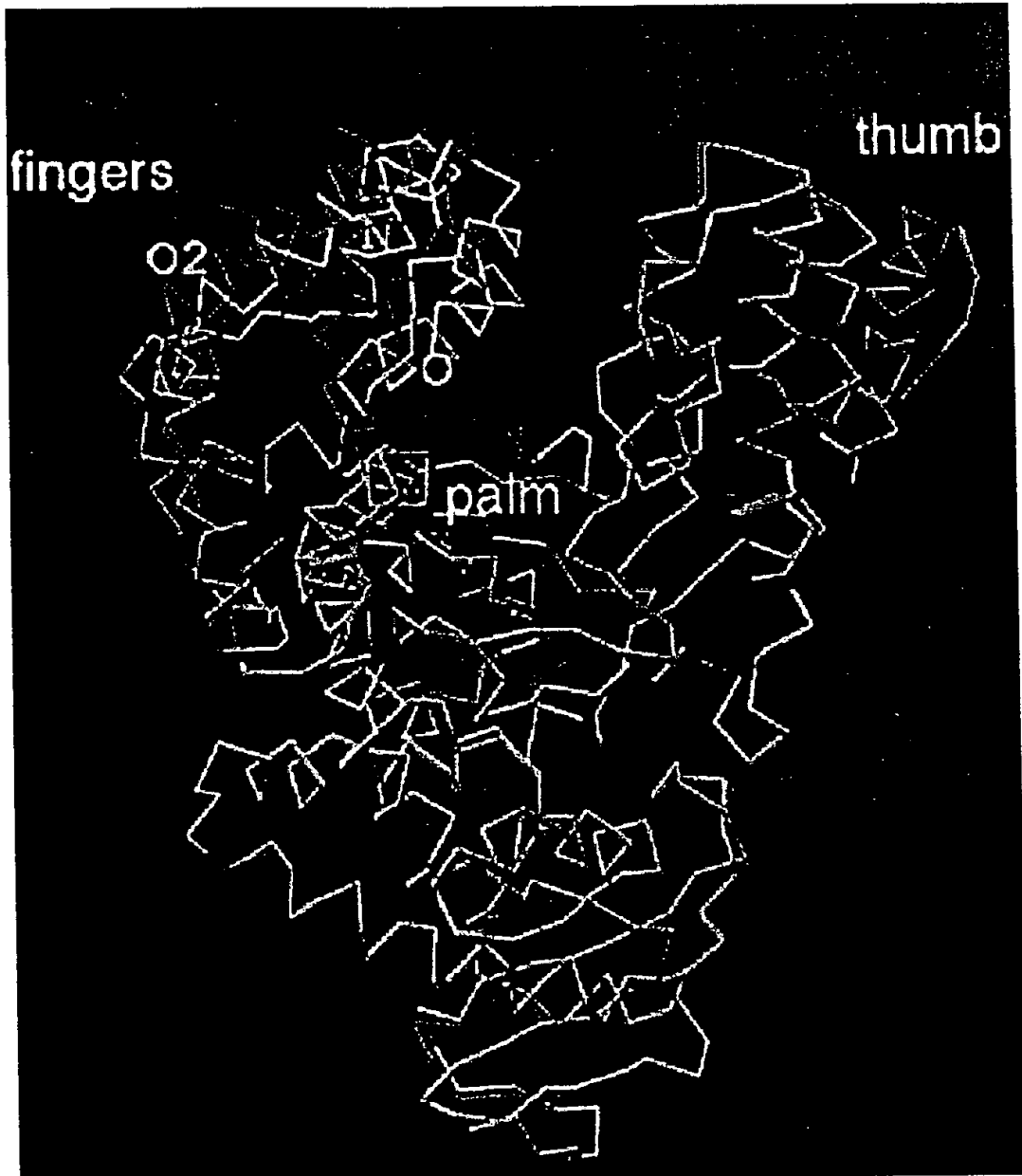


FIG. 2

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FIG. 3A

APPROVED	O.G. FIG.	
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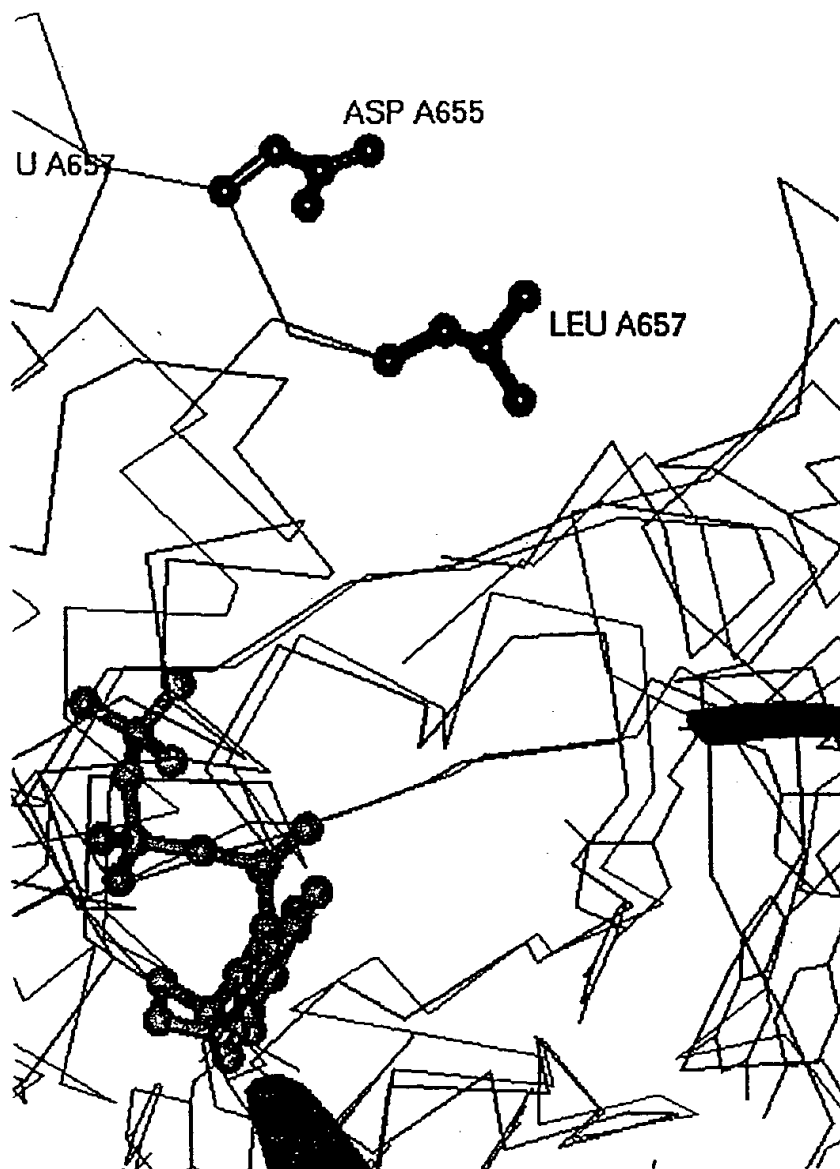


FIG. 3B

APPROVED	O.G. FIG.	
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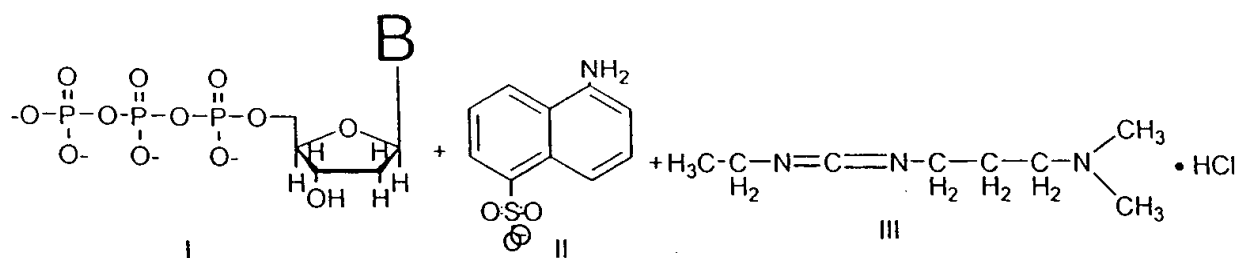


FIG. 3C

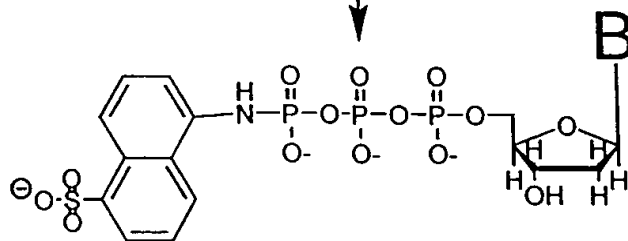
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B = A, C, T, G



dNTP γ -Am NS

FIG. 4

APPROVED	O.G. FIG.	
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Primer Strand:

TOP 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT-T 3' CCA TGA TTC GCC GGC GTA CTC 5'
 BOT-C 3' CCA TGA TTC GCC GGC GTA CCC 5'
 BOT-G 3' CCA TGA TTC GCC GGC GTA CGC 5'
 BOT-A 3' CCA TGA TTC GCC GGC GTA CAC 5'
 BOT-3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
 BOT-Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Incorporate: GATC AG AAAG
(5' to 3')

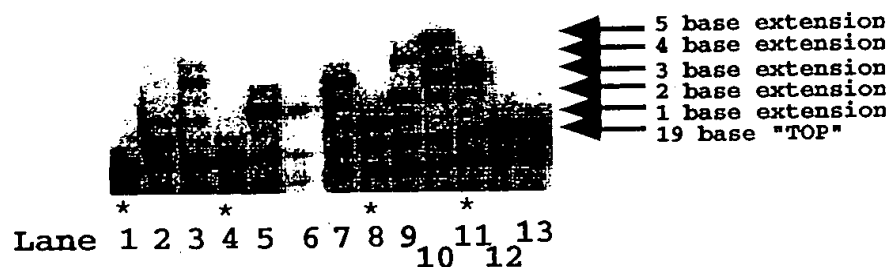


FIG. 5

APPROVED	O.G. FIG.	
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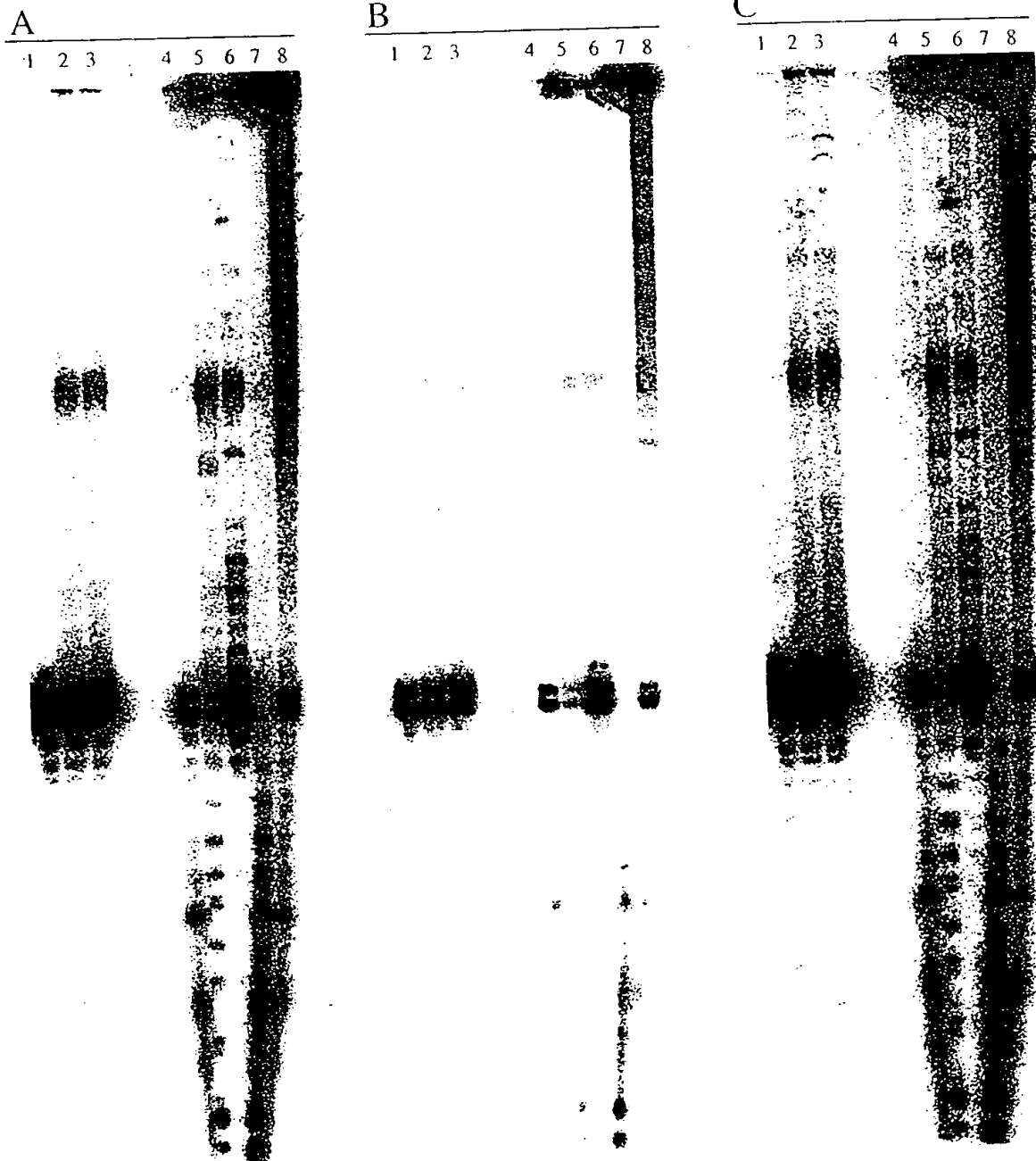


FIG. 6

APPROVED	O.G. FIG.	
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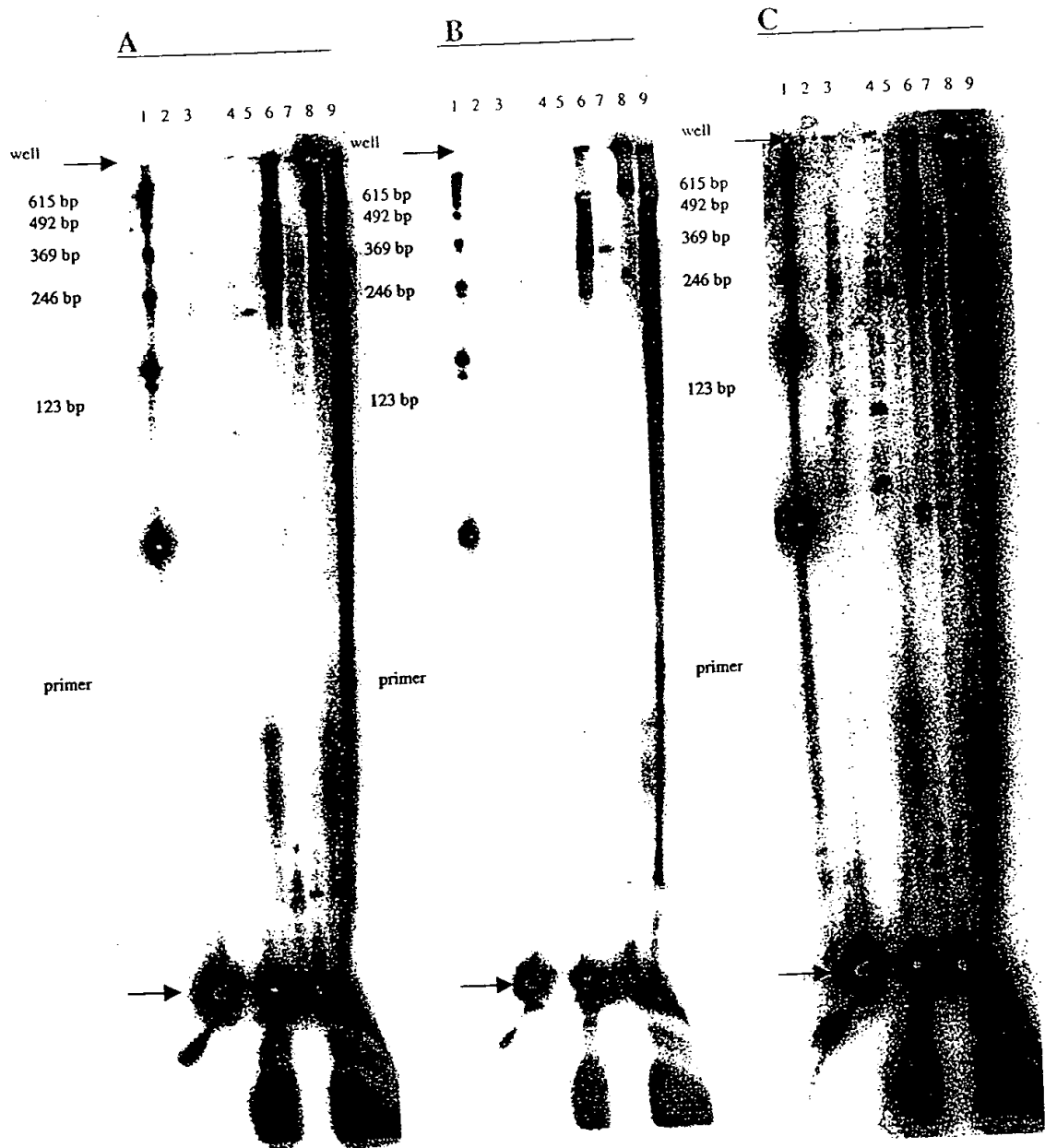


FIG. 7

APPROVED	O.G. FIG.	
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		Klenow								Taq	
Enzyme	-	+	+	+	+	+	+	+	+	+	+
Primer (TOP)	+	+	+	+	+	+	+	+	+	+	+
Template	-	<u>BOT - 3T</u>			<u>BOT - T</u>			<u>BOT - Sau</u>		<u>BOT - 3T</u>	
Nucleotide	-	dG	dA	γ A	dG	dA	γ A	dG	dA	γ A	dA γ A

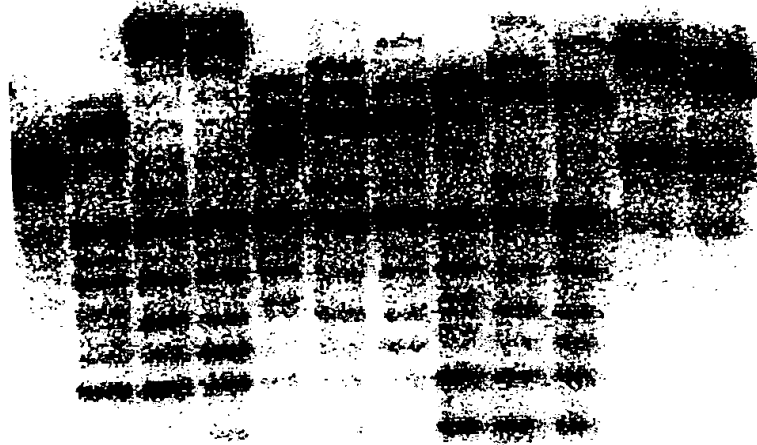


FIG. 8

APPROVED	O.G. FIG.	
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Pfu Primer Extension Assays

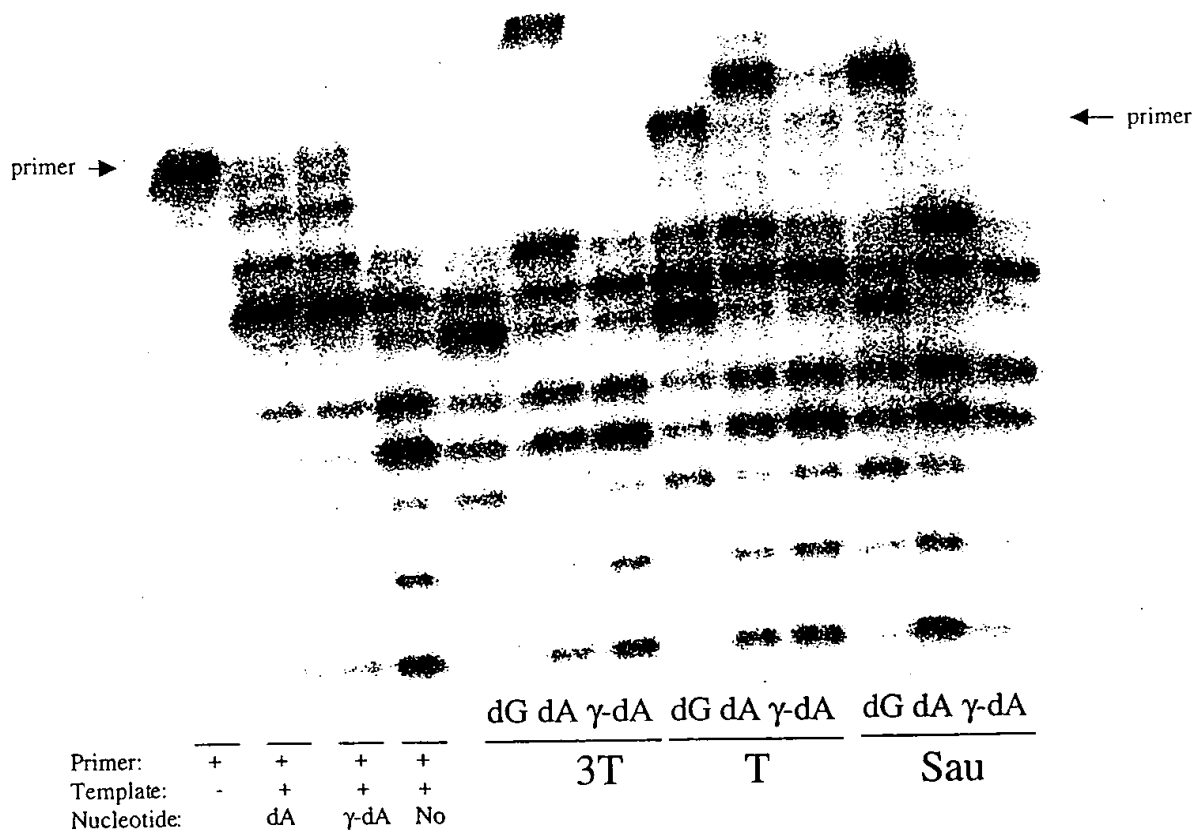


FIG. 9

APPROVED	O.G. FIG.	
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- Primer Strand:

Top 5' GGT ACT AAG CGG CCG CAT G 3'

- Template Strands:

3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'

Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

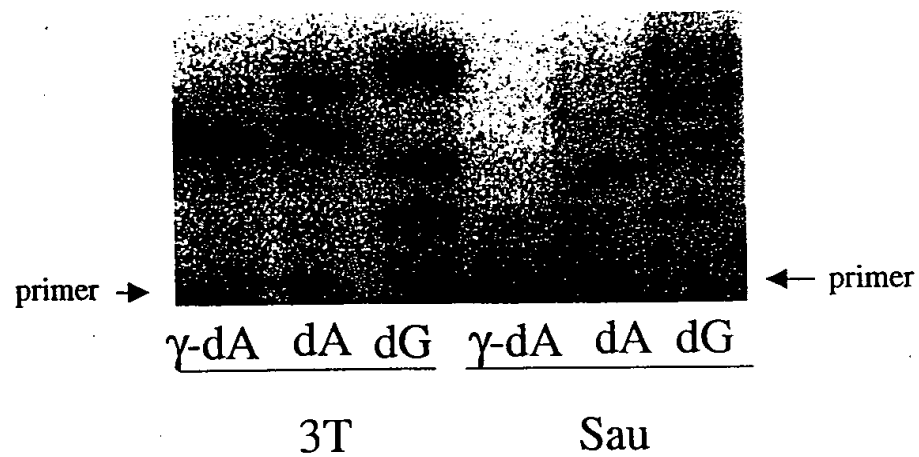


FIG. 10

APPROVED	O.G. FIG.	
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Primer Strand:

Top 5' GGT ACT AAG CGG CCG CAT G 3'

Template Strands:

BOT-3T 3' CCA TGA TTC GCC GGC GTA CTT TC 5'
BOT-Sau 3' CCA TGA TTC GCC GGC GTA CCT AG 5'

Enzyme:	None	T7	T7	Seq	Seq	T7				Sequenase				Taq			
Primer:	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Template:	-	+	-	+	BOT-3T				Sau		BOT-3T		Sau		BOT-3T		
Nucleotide:	-	dA	γ dA	dA	γ dA	dG	dA	(spill)	γ dA	dG	dA	γ dAdG	dA	γ dAdG	dA	γ dA	dA

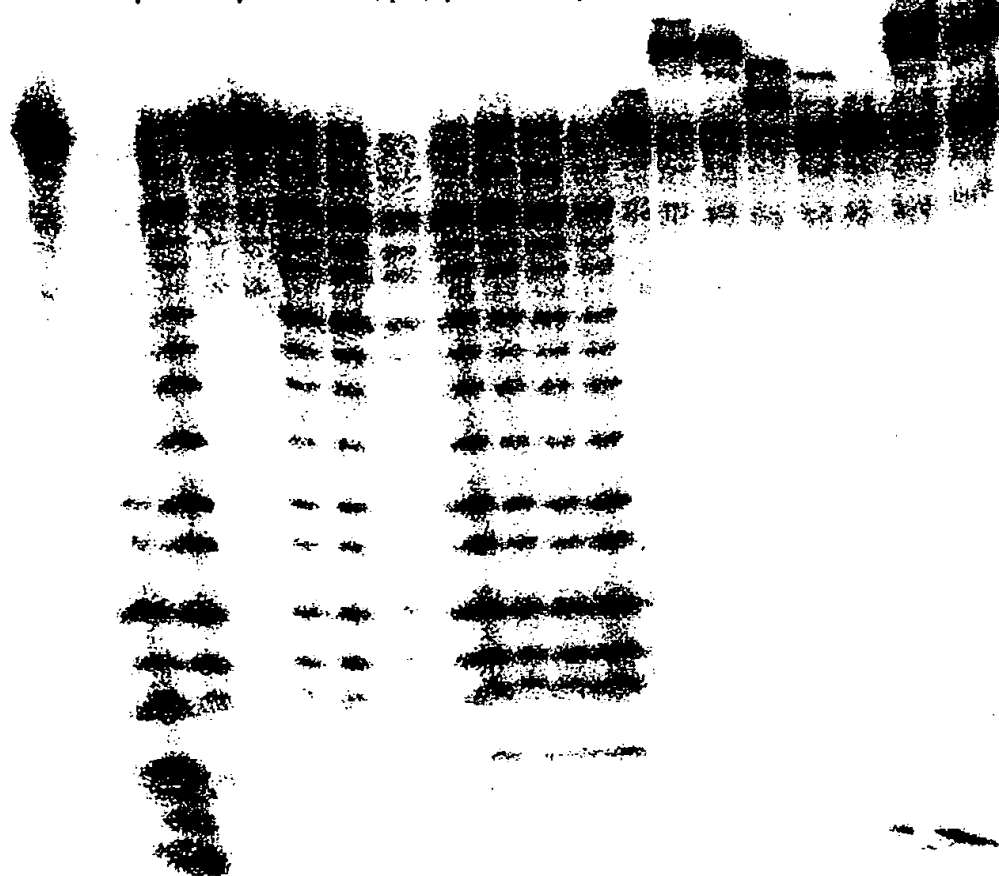
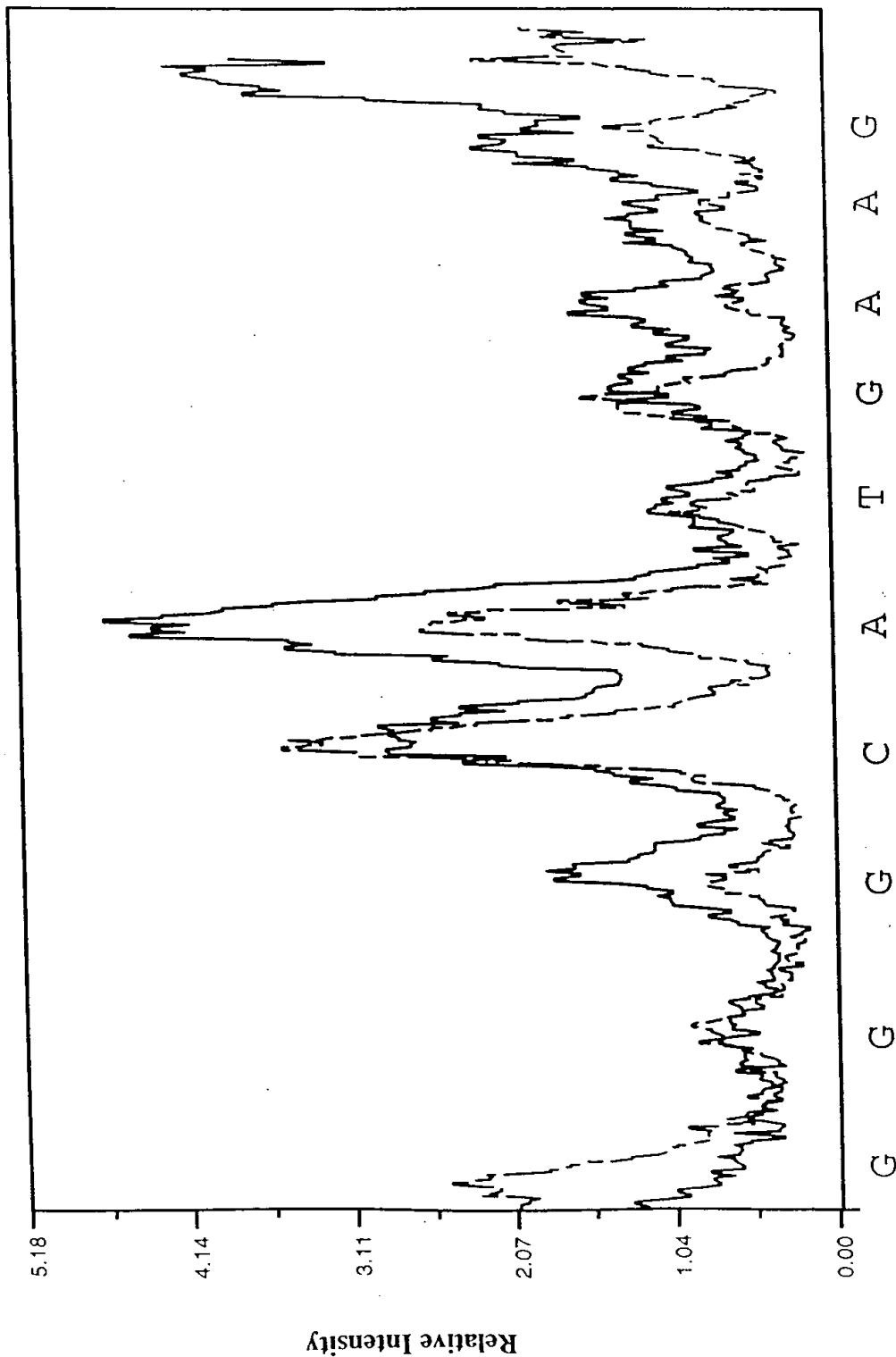


FIG. 11

APPROVED	O.G. FIG.	
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Signal Intensity and Reaction Kinetics Provide Information Concerning Base Identity.

FIG. 12